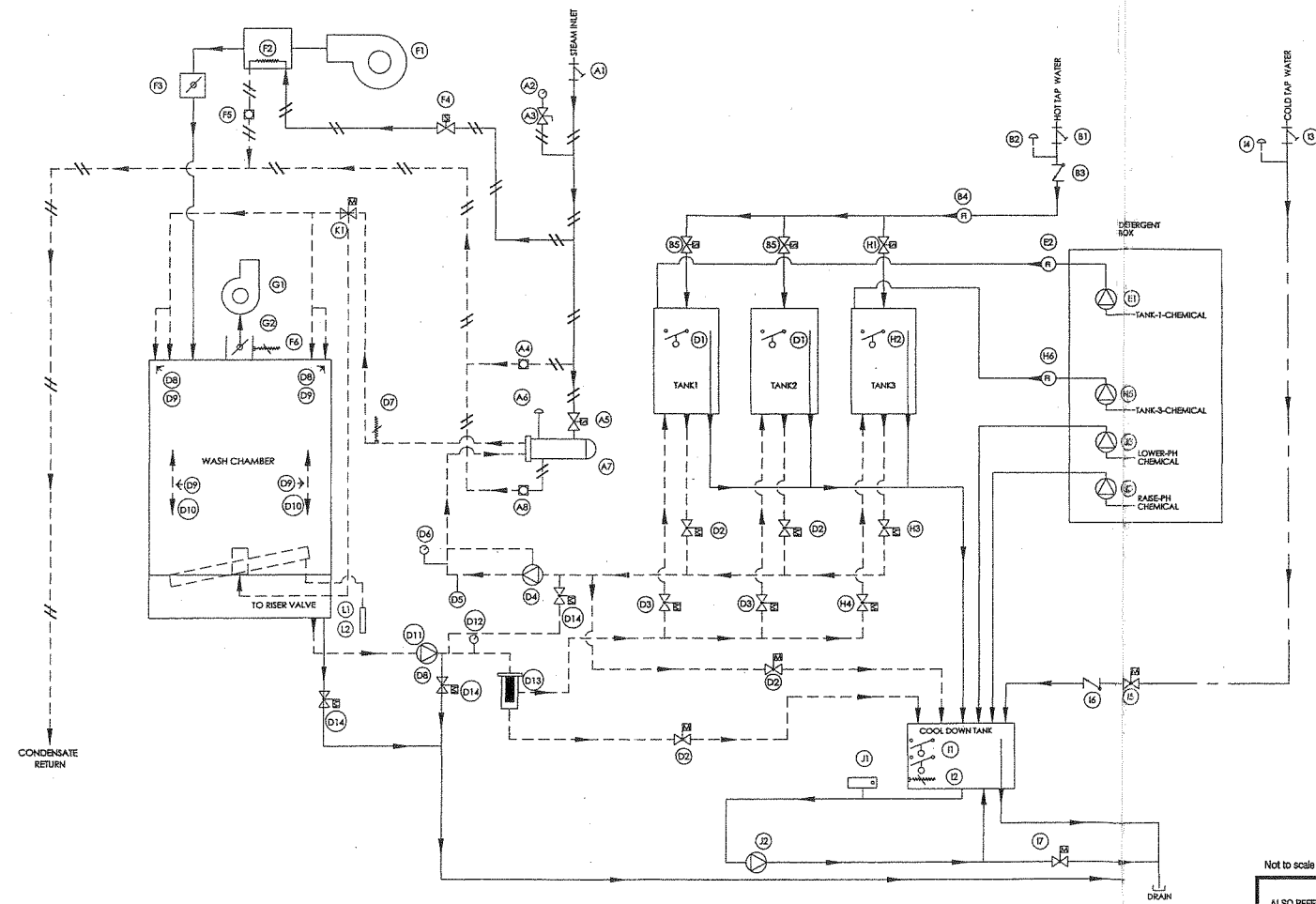


COLD WATER  
HOT WATER  
STEAM  
CONDENSATE  
RECIRCULATION  
DRAIN



Not to scale SHEET 1 OF 3

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)  
ALSO REFER TO GENERAL NOTES APPLICABLE TO EQUIPMENT DRAWINGS

BASIL® 9500  
CAGE AND RACK WASHER  
PROCESS & INSTRUMENT DIAGRAM

STERIS®	EQUIPMENT DRAWING NUMBER 122-997-953
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HEAT EXCHANGER

REF. NO.	PART NO.	PART NAME	DESCRIPTION	VENDOR INFORMATION	QTY.
A1	117-950-192	STRAINER	1 1/2" NPT. BRASS	BRAUKMAN # FY32T1039	1
A2	117-959-340	PRESSURE GAGE	1/4" NPT BRASS	WINTERS # 0-100	1
A3	117-940-083	MANUAL BALL VALVE	1/4" NPT.	JAMESBURY # 351	1
A4	117-950-182	STEAM TRAP	1/2" NPT.	SPIRAX SARCO # TD521/2	1
A5	117-911-035	STEAM VALVE	1 1/4" NPT. BRASS	ASCO #S0820G27	1
A6	117-940-073	VACUUM BRAKER	1/2" NPT BRASS	SPIRAX SARCO # VB-14	1
A7	117-909-386	HEAT EXCHANGER	1 1/2" TRI CLAMP S/S 316	ARMSTRONG	1
A8	117-911-036	STEAM TRAP	1" NPT.	SPIRAX SARCO # FT14HC	1

HOT TAP WATER

REF. NO.	PART NO.	PART NAME	DESCRIPTION	VENDOR INFORMATION	QTY.
B1	117-950-205	STRAINER	1" NPT BRASS	BRAUKMAN # FY32T1021	1
B2	117-951-541	VACUUM BREAKER	1/2" NPT BRASS	WATTS #N36	1
B3	117-909-703	CHECK VALVE	1" NPT BRASS	COMBRACO # 1"	1
B4	117-995-718	FLOW METER	1" NPT BRASS	BURKERT #CD00701	1
B5	117-997-376	WATER VALVE	1" NPT BRASS	BURKERT #281	2

PNEUMATIC SYSTEM

REF. NO.	PART NO.	PART NAME	DESCRIPTION	VENDOR INFORMATION	QTY.
C1	117-909-501	FILTER/REGULATOR	1/2" NPT. ALUMINIUM	SCHRADER BELLOWS # 07E31A13A	1
C2	117-901-102	PRESSURE GAUGE	1/4" NPT BRASS 0-160 PSI.	SCHRADER BELLOWS # 1/4-0-160	1
C3	117-909-502	3 WAY PNEUM VALVE	1/2" NPT ALUMINIUM	SCHRADER BELLOWS # N35441091	1
C4	117-998-074	4 WAY PNEUM VALVE ASSY	1/4" NPT. PLASTIC	SCHRADER BELLOWS # PVL8101607W1S	21
C5	117-909-443	HYDRAULIC CYLINDER	1 1/2" BORE X 24.5 STROKE	SCHRADER BELLOWS # FW4A1085015W	2
C6	117-909-707	PNEUMATIC CYLINDER	1 1/2" RODLESS	FESTO # DGP-32-2058-PPV-A-B	1
C7	117-902-318	MICROMETRIC VALVE	1/8" M X 1/4" O.D.	BIMBA # FQP2-D78378A	6
C8	117-909-934	MICROMETRIC VALVE	3/8" F X 3/8" F	PARKER	4
C9	117-909-945	AIR/OIL TANK	ø3 1/4" X 8" LG.	SCHRADER BELLOWS #3.25C83TKU-8"	4

RECIRCULATING PIPING

REF. NO.	PART NO.	PART NAME	DESCRIPTION	VENDOR INFORMATION	QTY.
D1	117-905-655	WATER LEVEL	REED SWITCH LEVEL SENSOR	MADISON # M5010	2
D2	117-997-591	PNEU BALL VALVE	2" TRI CLAMP S/S	JAMESBURY #2" 3C3600TT-TC-SP25-LK985	4
D3	117-997-590	PNEU BALL VALVE	1 1/2" TRI CLAMP S/S	JAMESBURY #1 1/2" 3C3600TT-TC-SP25-LK984	4
D4	117-909-550	HIGH PRESSURE PUMP	10HP S/S 208/230/460.	PRICE # JB15033	1
D5	117-909-640	PRESSURE TRANSMITTER	1/4" NPT S/S 0-150PSI.	WIKA #89114540	1
D6	117-909-802	PRESSURE GAUGE	1/4" NPT S/S 0-200PSI.	FOSTER # 025FFS00200	1
D7	117-910-806	RTD.	PLATINUM 100 OHMS	QUANTEM # 223-11291-01	1
D8	117-910-155	SPRAY JET	1/4" NPT S/S	SPRAYING SYSTEM #PS010	4
D9	117-909-578	SPRAY JET	1/8" NPT S/S	SPRAYING SYSTEM #HU2510	30
D10	117-909-774	SPRAY JET	1/8" NPT S/S	SPRAYING SYSTEM #HU9530	4
D11	117-909-551	SUCTION PUMP	3HP S/S 208/230/460	PRICE # SP150	1
D12	117-909-801	PRESSURE GAUGE	1/4" NPT S/S 0-60PSI	FOSTER # 025FFS0060	1
D13	117-989-189	SELF CLEANING CARTRIDGE	3" TRI CLAMP S/S	STERIS # 117-989-189	1
D14	117-909-604	PNEU BALL VALVE	1" TRI CLAMP S/S	JAMESBURY #1" 3C3600TT-TC-SP25-LK982	3

CHEMICAL DETERGENT

REF. NO.	PART NO.	PART NAME	DESCRIPTION	VENDOR INFORMATION	QTY.
E1	117-998-088	PERISTALTIC PUMP ASSEMBLY	PERISTALTIC	KNIGHT # KP8120BX ASSY	1
E2	117-997-309	FLOW METER	1/4" NPT PLASTIC	GEMS # 175525	1

DRY SYSTEM (OPTIONAL)

REF. NO.	PART NO.	PART NAME	DESCRIPTION	VENDOR INFORMATION	QTY.
F1	117-909-675	FAN	3HP 208V/415V/480V	WOOD # AF12-1075/24042F	1
F2	117-997-020	HEAT EXCHANGER BOX	1 1/2"IN 1 1/4"OUT BRASS	THERMOFN # 117-997-020	1
F3	117-951-763	PNEUMATIC CYLINDER	3/4" BORE 1" STROKE	CLIPPARD # UDR-12-1	1
F4	117-997-373	STEAM VALVE	1 1/2" NPT. BRASS	BURKERT #406	1
F5	117-950-198	STEAM TRAP	1" NPT. S/S	SPIRAX # TD52-1	1
F6	117-955-383	RTD.	PLATINUM 100 OHMS	QUANTEM # 93910-581	1

EXHAUST SYSTEM

REF. NO.	PART NO.	PART NAME	DESCRIPTION	VENDOR INFORMATION	QTY.
G1	117-909-920	FAN (OPTIONAL)	1.5HP 208V/415V/480V	WOOD # SC-600	1
G2	117-951-763	PNEUMATIC CYLINDER	3/4" BORE 1" STROKE	CLIPPARD # UDR-12-1	1
G3	117-910-767	FLOW CONTROL VALVE	1/4" O.D. X 1/4" O.D.	AS 200 IF. SMC	2

ADDITIONAL WASH TANK (2nd DETERGENT TANK) (OPTIONAL)

REF. NO.	PART NO.	PART NAME	DESCRIPTION	VENDOR INFORMATION	QTY.
H1	117-997-376	WATER VALVE	1" NPT BRASS	BURKERT #281	1
H2	117-905-655	WATER LEVEL	REED SWITCH LEVEL SENSOR	MADISON # M5010	1
H3	117-997-591	PNEU BALL VALVE	2" TRI CLAMP S/S	JAMESBURY #2" 3C3600TT-TC-SP25-LK985	1
H4	117-997-590	PNEU BALL VALVE	1 1/2" TRI CLAMP S/S	JAMESBURY #1 1/2" 3C3600TT-TC-SP25-LK984	1
H5	117-998-088	PERISTALTIC PUMP ASSEMBLY	PERISTALTIC	KNIGHT # KP8120BX ASSY	1
H6	117-997-309	FLOW METER	1/4" NPT PLASTIC	GEMS # 175525	1

COOL DOWN TANK SYSTEM (OPTIONAL)

REF. NO.	PART NO.	PART NAME	DESCRIPTION	VENDOR INFORMATION	QTY.
I1	117-903-115	WATER LEVEL	REED SWITCH LEVEL SENSOR	MADISON # M5010	2
I2	117-955-383	RTD.	PLATINUM 100 OHMS	QUANTEM # 93910-581	1
I3	117-950-205	STRAINER	1" NPT BRASS	BRAUKMAN # FY32T1021	1
I4	117-951-541	VACUUM BREAKER	1/2" NPT BRASS	WATTS #N36	1
I5	117-997-376	WATER VALVE	1" NPT BRASS	BURKERT #281	1
I6	117-909-703	CHECK VALVE	1" NPT BRASS	COMBRACO	1
I7	117-997-590	PNEU BALL VALVE	1 1/2" TRI CLAMP S/S	JAMESBURY #1 1/2" 3C3600TT-TC-SP25-LK984	1

PH NEUTRALIZING SYSTEM ( INCLUDES COOL DOWN TANK) (OPTIONAL)

REF. NO.	PART NO.	PART NAME	DESCRIPTION	VENDOR INFORMATION	QTY.
J1	117-909-559	PH SENSOR	3/4"NPT PVDF	THORTON # 90189	1
J2	117-909-784	NEUTRALIZING PUMP	1/3HP 208V/230V/460V IMPS"	PRICE # CD100 S/S	1
J3	117-998-088	PERISTALTIC PUMP ASSEMBLY	PERISTALTIC	KNIGHT #KP8120BX ASSY	1

MANIFOLD COUPLING SYSTEM (OPTIONAL)

REF. NO.	PART NO.	PART NAME	DESCRIPTION	VENDOR INFORMATION	QTY.
K1	117-910-062	PNEU BALL VALVE	1 1/2" TRI CLAMP S/S. 3 WAY	JAMESBURY #1 1/2" 3 VOIES/SST/SST/TC-SP50	2

AUTOMATIC FLOOR TILTING (OPTIONAL)

REF. NO.	PART NO.	PART NAME	DESCRIPTION	VENDOR INFORMATION	QTY.
L1	117-909-455	PNEUMATIC CYLINDER	1 1/2" BORE X 10" STROKE	SCHRADER BELLOWS	1
L2	117-902-318	MICROMETRIC VALVE	1/8" M X 1/4" OD ALL	BIMBA # FQP2	2

Not to scale

SHEET 2 OF 3

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)  
ALSO REFER TO GENERAL NOTES APPLICABLE TO EQUIPMENT DRAWINGS

BASIL® 9500  
CAGE AND RACK WASHER  
PROCESS & INSTRUMENT DIAGRAM

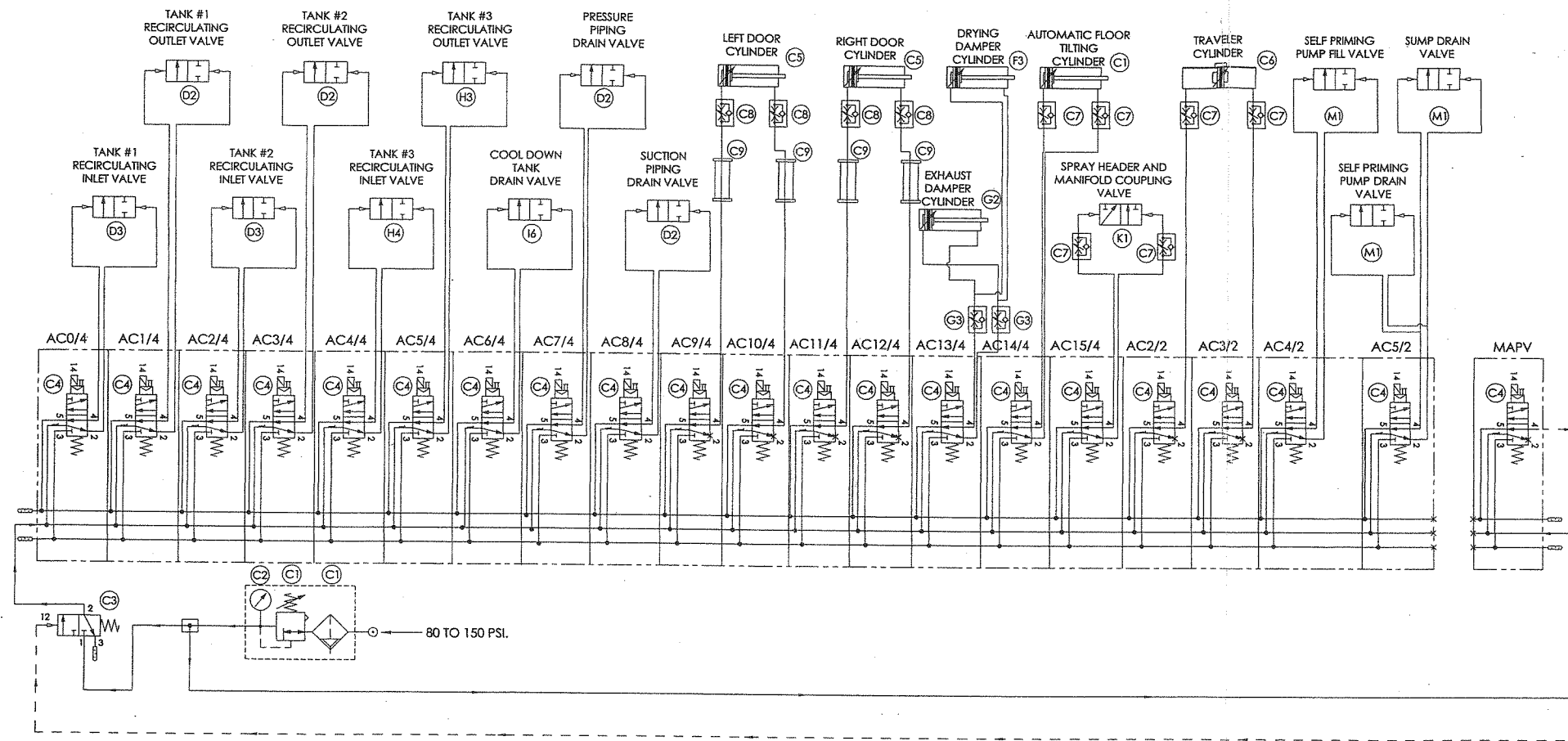
STERIS®



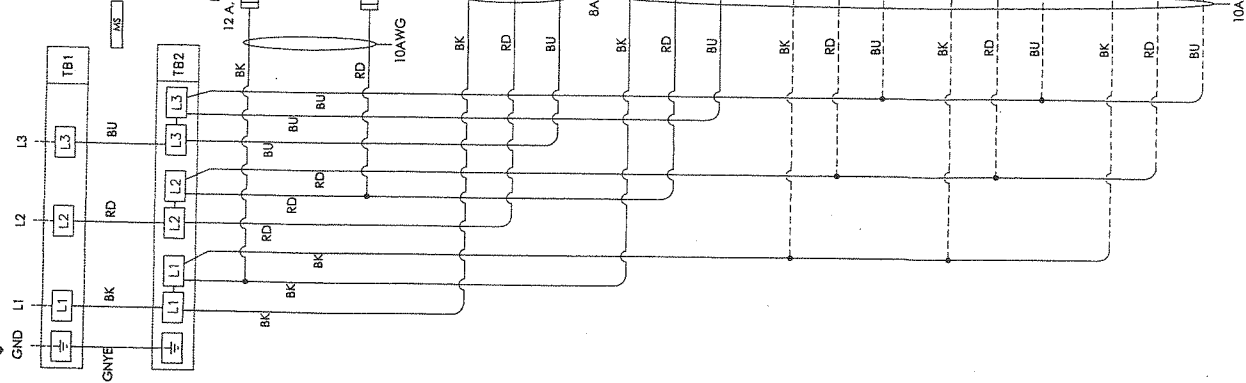
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122-997-953

PNEUMATIC SCHEMATIC



1 CUSTOMER INCOMING LINES  
208 VAC 3 PH 60 HZ



NOTES

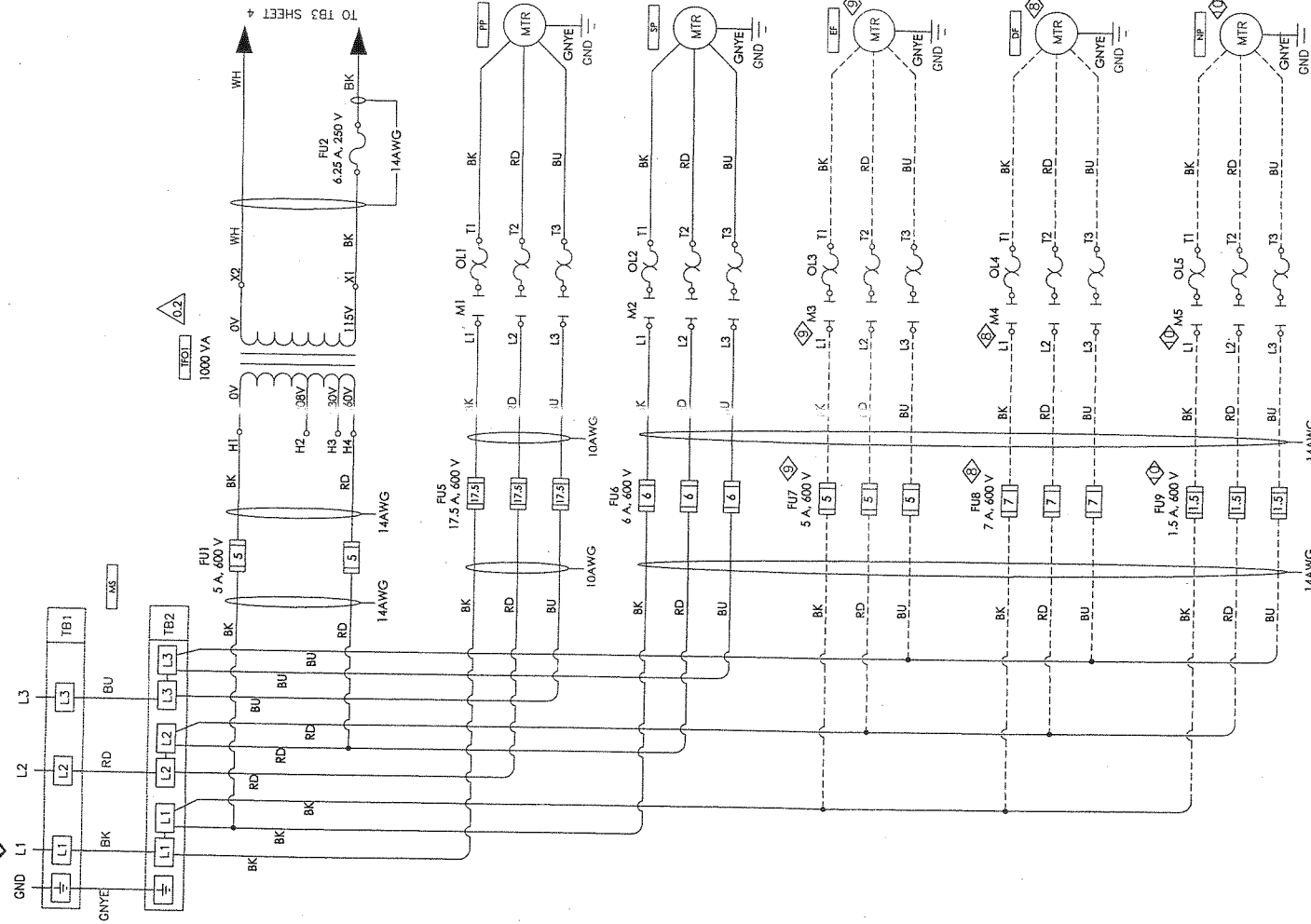
- REFER TO INSTALLATION MANUAL FOR CUSTOMERS CONNECTION.
- ON 380/400/415 VAC 50 HZ UNITS, TRANSFORMER IS PRE-WIRED FOR 415 VAC OPERATION.
- N/C MEANS NO CONNECTION.
- ALL TERMINALS BEARING THE SAME NUMBER WITHIN THE SAME TERMINAL BLOCK (TB) ARE CONNECTED TOGETHER.
- WIRES ARE IDENTIFIED WITH SAME NUMBER AS THE TERMINAL TO WHICH THEY ARE CONNECTED TO.
- IDENTIFICATION TAG OF CABLES GOING OUT OF ELECTRICAL BOX HAS THE SAME NAME AS INPUTS AND OUTPUTS NAME EX: L3/1 UNLESS OTHERWISE SPECIFIED. EX: EF (EXHAUST FAN)
- WORDS "LEFT" AND "RIGHT" CONTAINED IN COMPONENT NAMES REPRESENTS THEIR LOCATION WHEN FACING SERVICE SIDE.
- OPTION COOL DOWN TANK (7) IS ALWAYS INSTALLED WHEN OPTION PH NEUTRALIZING SYSTEM (10) IS PRESENT.
- IDENTIFICATIONS IN BRACKETS. EX.: {6/S1}. REFERS TO LED'S ON I/O BOARDS ASSOCIATED WITH THE INPUT OR OUTPUT. THE FIRST NUMBER IDENTIFIES I/O BOARD LOCATION (SLOT) AND THE SECOND THE LED IDENTIFICATION.

OPTIONS	
1	208VAC, 3PH, 60Hz UNIT
2	480VAC, 3PH, 60Hz UNIT
3	380/400/415VAC, 3PH, 50Hz UNIT
4	SINGLE DOOR UNIT (ON LEFT SIDE)
5	SINGLE DOOR UNIT (ON RIGHT SIDE)
6	DOUBLE DOOR UNIT
7	COOL DOWN SIDE TANK
8	VENTED DRYING SYSTEM
9	EXHAUST FAN
10	PH NEUTRALIZING SYSTEM
11	ADDITIONAL WASH TANK
12	COLD WATER INJECTION SYSTEM
*OR* MEANS EITHER OPTION HAS TO BE PRESENT FOR DEVICE TO BE INSTALLED	

STERIS		1.0	98-08-31	C.T. #99004	TITLE: BASIL@ 9500 ELECTRICAL SCHEMATICS	
		1.1	98-10-05	D.C.T. #2649		
		1.2	98-11-19	D.C.T. #2777		
		1.3	99-11-15	D.C.T. #3464		
		NO	DATE	DESCRIPTION	POWER SECTION	
		NO	DATE	DESCRIPTION	208 VAC, 3PH, 60Hz	
Drawn: ME		Checked: L.S.	Approved: L.S.	Revision no.	Sheet 1 of 12	
Date: 97-11-17		Date: 97-11-17	Date: 97-11-17	Drawing no.	122-999-790	

CUSTOMER INCOMING LINES  
480 VAC 3 PH 60 Hz

2



STERIS  
STERIS Canada Corporation

NO	DATE	REVISION	DESCRIPTION	DWN
1.0	98-08-31	C.T. #97004	TC	TC
1.1	98-10-05	D.C.T. #2649	TC	TC
1.2	98-11-19	D.C.T. #2777	TC	TC
1.3	99-11-15	D.C.T. #3464	TC	TC

TITLE: BASIL@9500  
ELECTRICAL SCHEMATICS  
POWER SECTION  
480 VAC, 3PH, 60Hz

Dwn. ME	9/21/17	Chk.	9/21/17	Appr.	9/21/17	Drawing no.	122-999-790	Sheet	2 of 12
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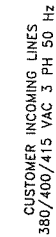
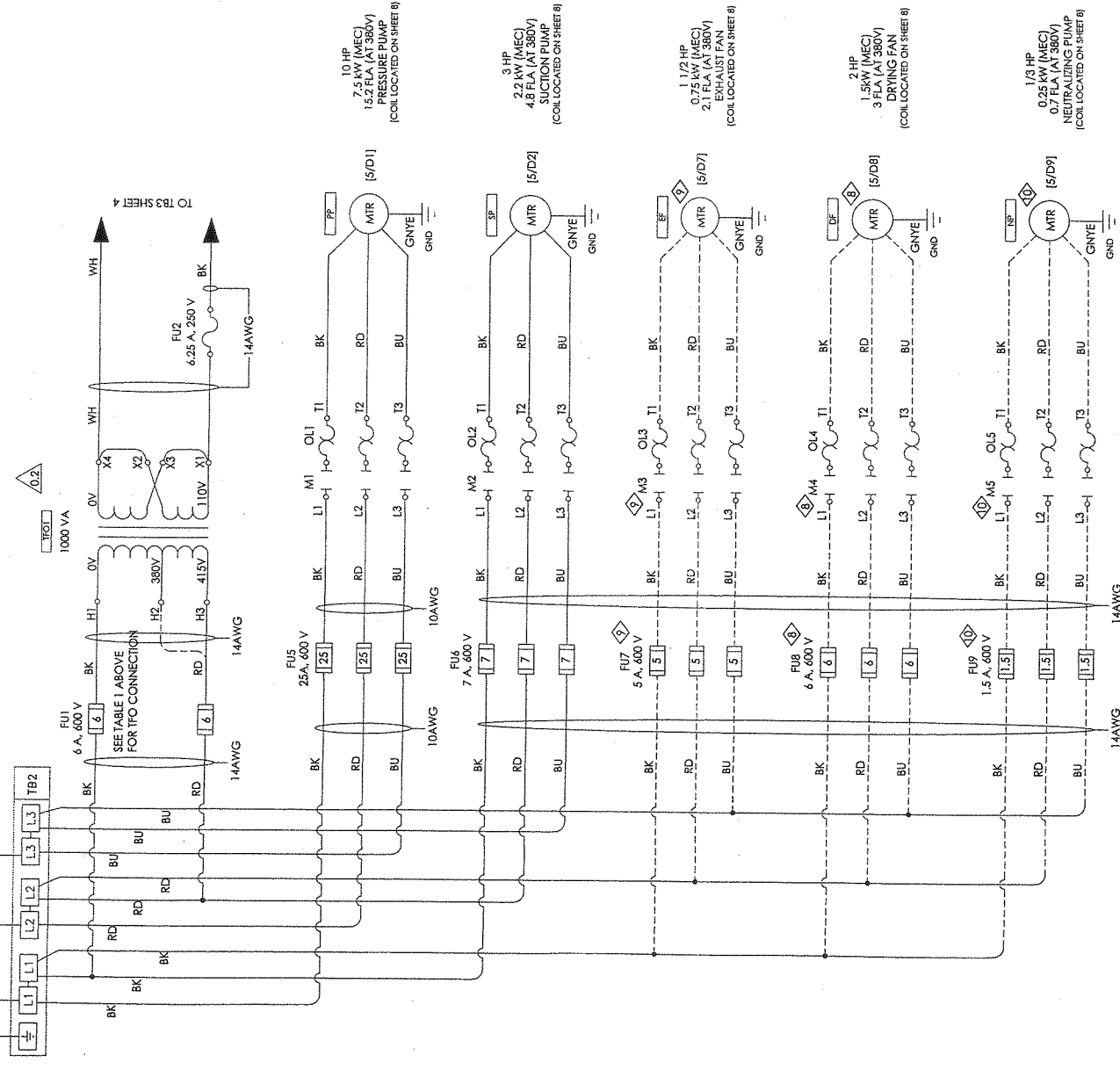

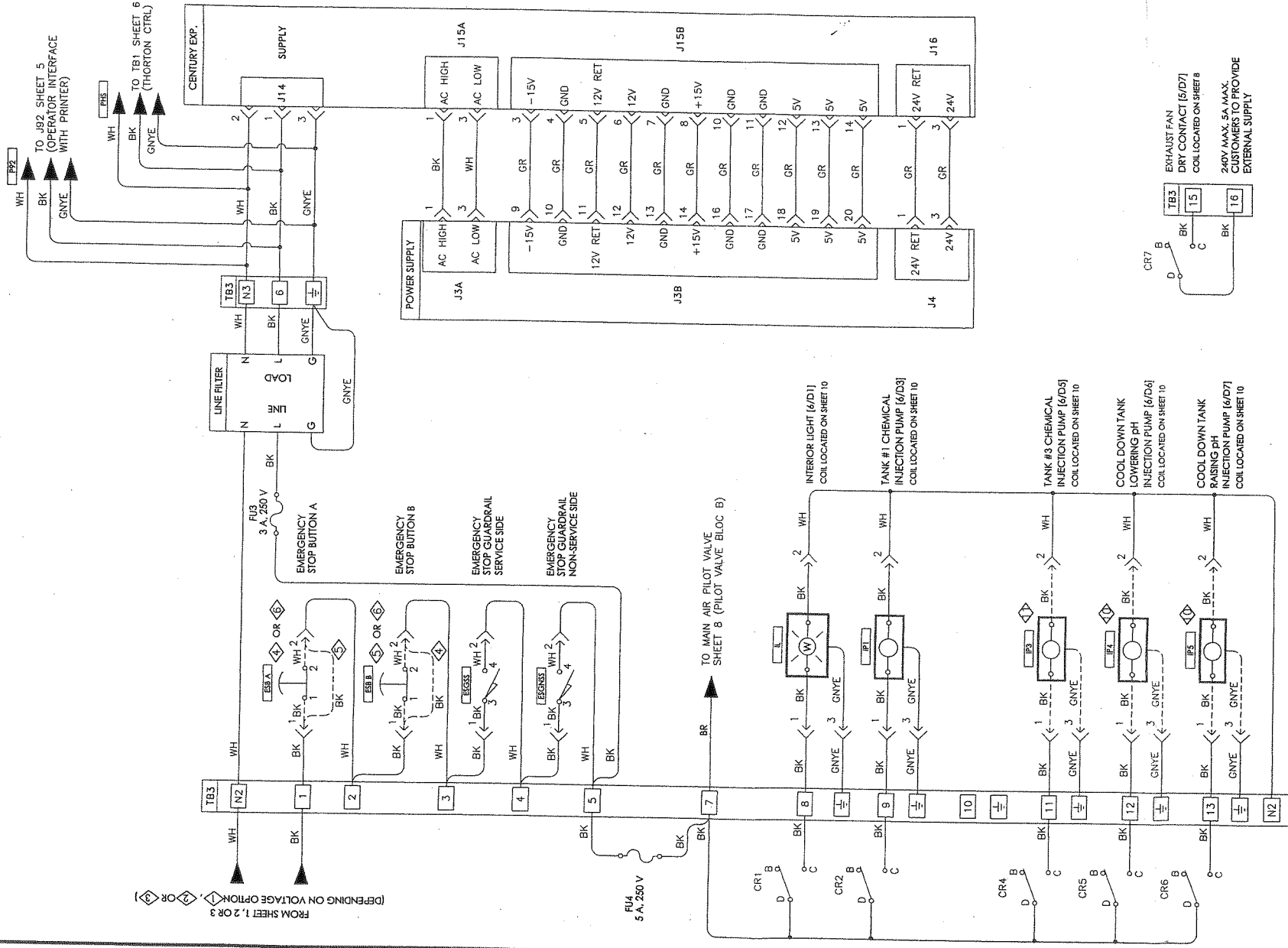


TABLE 1	
CUSTOMER INCOMING LINE:	USE TFO TAP:
380 V	H2 (380V)
400 V	H2 (380V)
* 415 V	H3 (415V)



STERIS <sup>®</sup>		STERIS Canada Corporation																									
																											
Dwn. ME	7/11-17	Chk. <i>TC</i>	Appro. <i>TC</i>																								
Date	7/11-17	Drawing not to scale	Date <i>7/11/17</i>																								
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NO	DATE	DESCRIPTION	REVISION																								
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1.1	98-10-05	D.C.T. #2649	TC																								
1.2	98-11-19	D.C.T. #2777	TC																								
1.3	99-11-15	D.C.T. #3464	TC																								
NO	DATE	DESCRIPTION	DWN																								
		Drawing no.	122-999-790																								
		Sheet	3 of 12																								



**STERIS**  
STERIS Corporation

REV	DATE	DESCRIPTION	BY	CHK	APPROV
1.0	98-08-31	C.I. #99004	TC		
1.1	98-10-05	D.C.I. #2649	TC		
1.2	98-11-19	D.C.I. #2777	TC		
1.3	99-11-15	D.C.I. #3444	TC		

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Date: 9/21/17

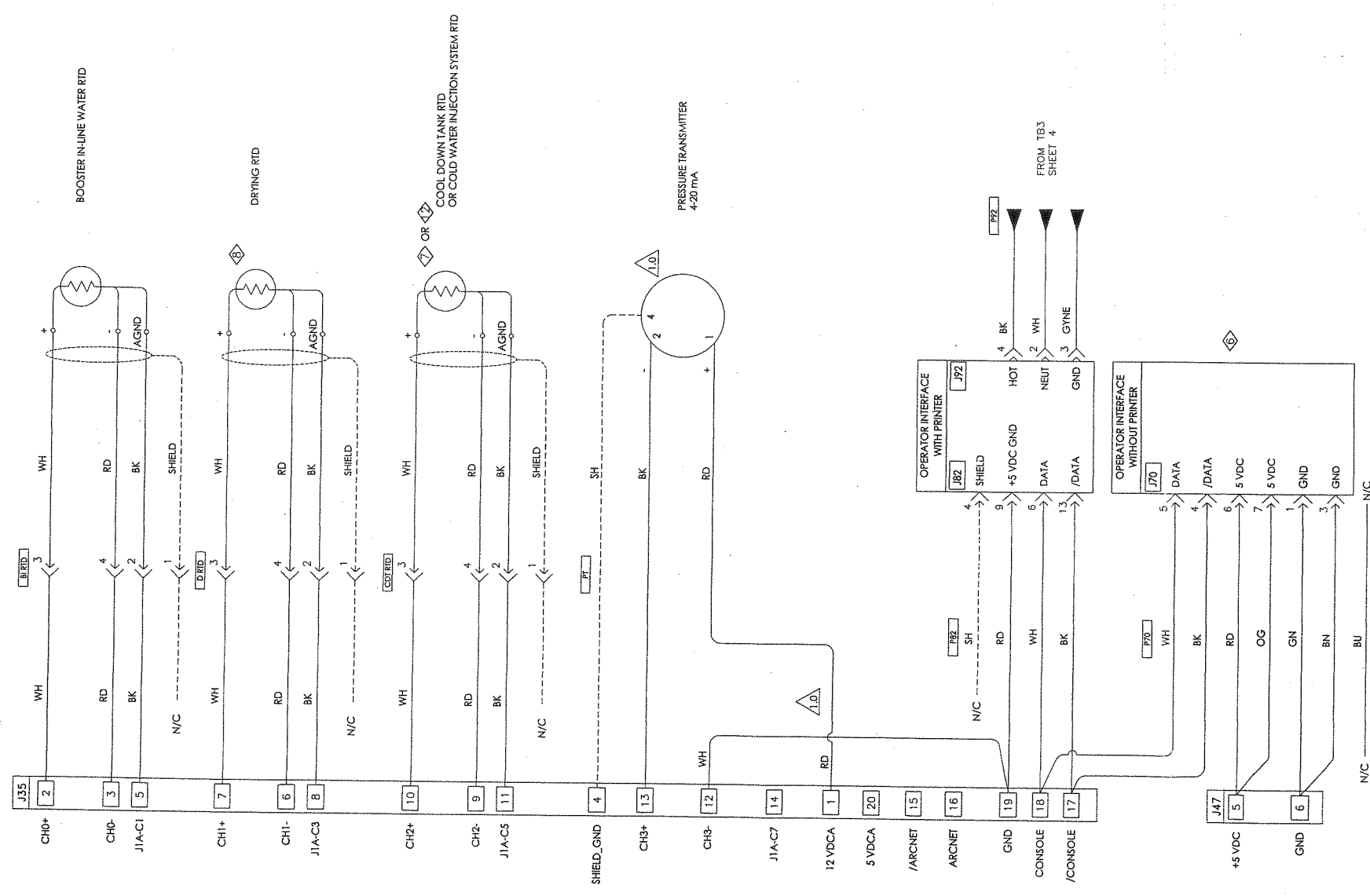
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Date: 9/21/16


Apprv. M.J.  
Date: 9/21/16

Drawing no. 122-999-790

Sheet 4 of 12

TITLE: BASIL@ 9500  
ELECTRICAL SCHEMATICS  
CONTROL SECTION





STERIS Gamma Corporation

1.0	98-08-31	C.T. #99004	TC
1.1	98-10-05	D.C.T. #2649	TC
1.2	98-11-19	D.C.T. #2777	TC
1.3	99-11-15	D.C.T. #3464	TC
NO	DATE	DESCRIPTION	DWN

STERIS

BASIL@9500  
ELECTRICAL SCHEMATICS  
CONTROL SECTION

Dwnr. ME	Chk. TC	Appr. LA
Date: 97-11-17	Date: 97-11-16	Date: 97-11-18

Drawing not to scale

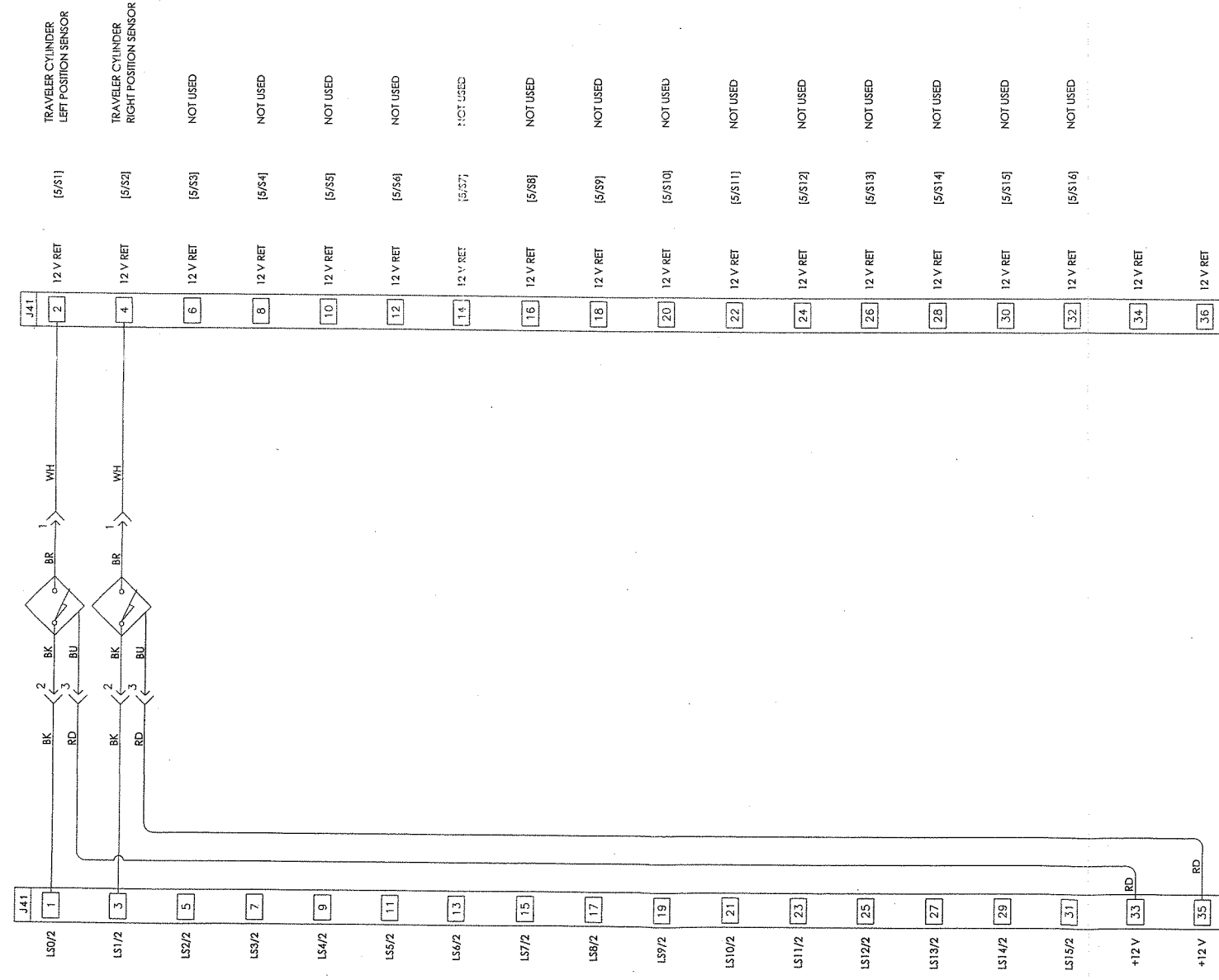
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Sheet 5 of 12



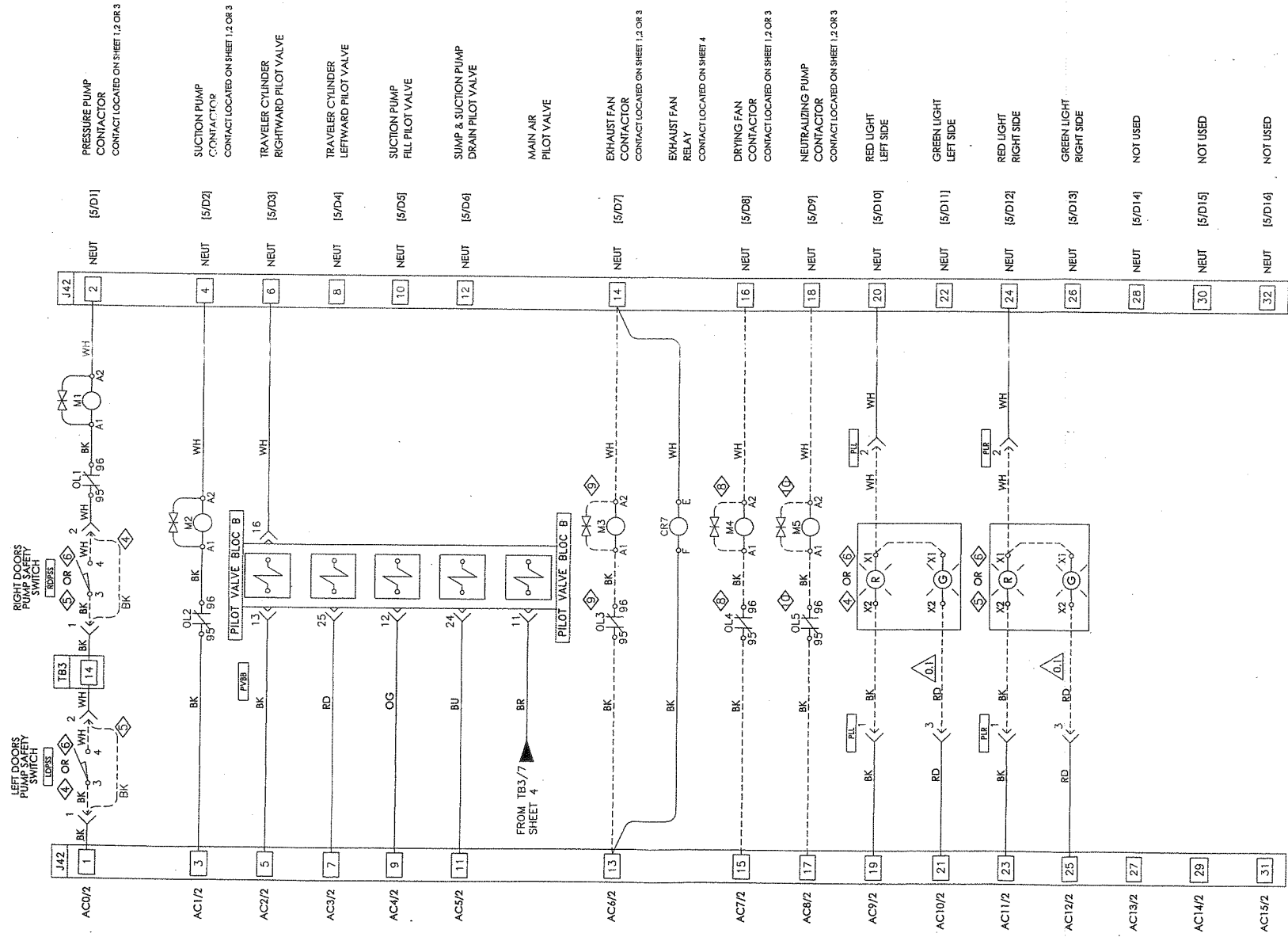


FIRST I/O BOARD  
INPUTS  
(SLOT #5)



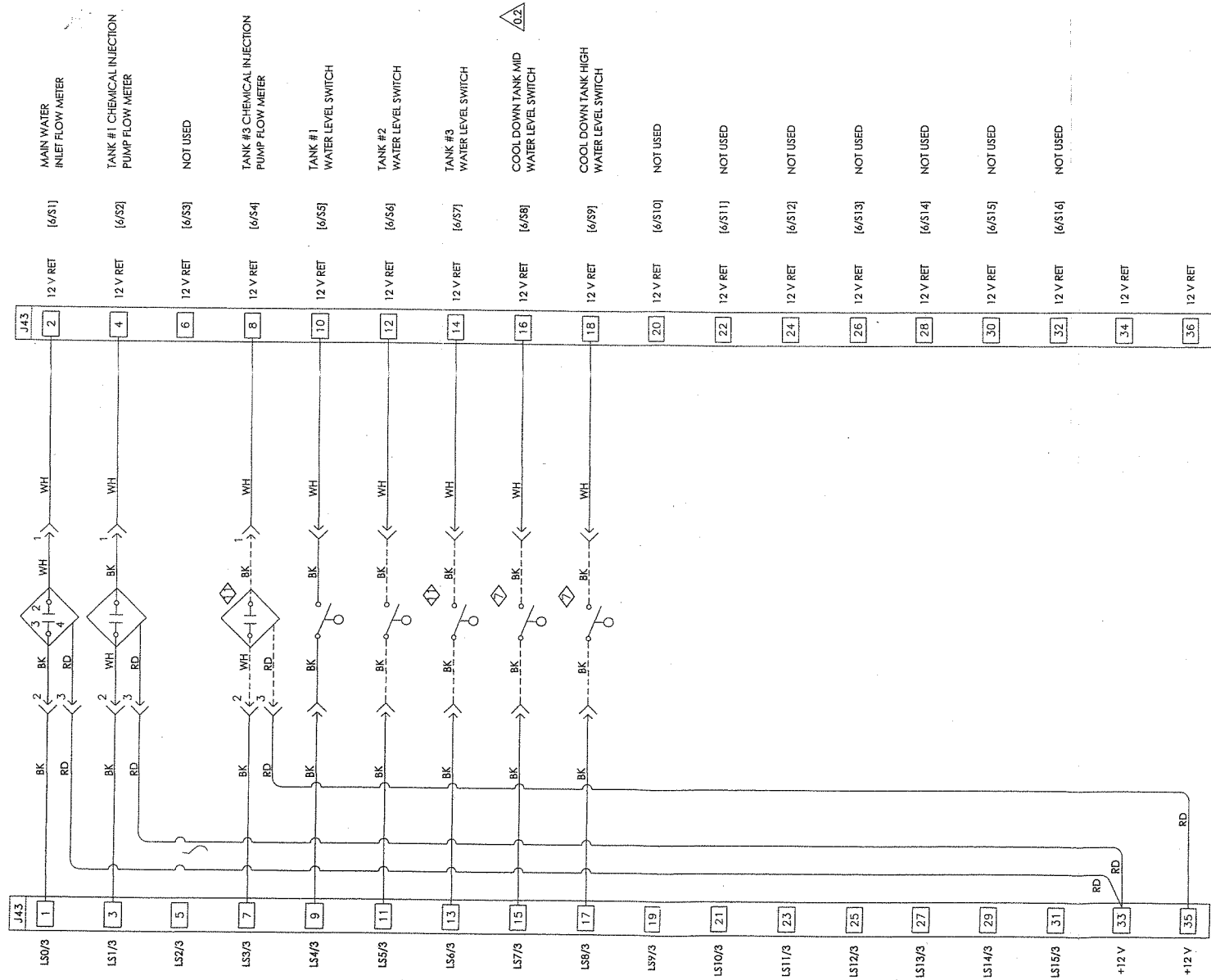
STERIS <sup>®</sup>		STERIS Control Corporation	
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Dwn. 1.2	98-11-19	D.C.T. #2777	1C
Dwn. 1.3	99-11-15	D.C.T. #3464	1C
Dwn. NO	DATE	DESCRIPTION	DWN
REVISION			
Dwn. ME	DATE	CRK.	APPRO.
Dwn. 97-11-17	97-11-17	Dwelling not to scale	OK
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			Sheet 7 of 12


FIRST I/O BOARD  
OUTPUTS  
(SLOT #5)



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1.1	98-10-05	D.C.I. #2649	TC	Sheet 8 of 12	
1.2	98-11-19	D.C.I. #2777	TC		
1.3	99-11-15	D.C.I. #3464	TC		
NO		DATE	DESCRIPTION		
Dwn. ME		REVISED	DATE		
Date: 9/11/17		Chk. JCL	Appr. JCL		
		Drawing set	Date: 9/11/17		

SECOND I/O BOARD  
INPUTS  
(SLOT #6)





STERIS Corporation

1.0

98-08-31

C.T. #99004

TC

1.1

98-10-05

D.C.T. #2649

TC

1.2

98-11-19

D.C.T. #2777

TC

1.3

99-11-15

D.C.T. #3464

TC

NO

DATE

DESCRIPTION

DWN

Drwn. M.E.

Chk. J.C.

Appro. J.C.

Date: 9/11/98

Date: 9/11/98

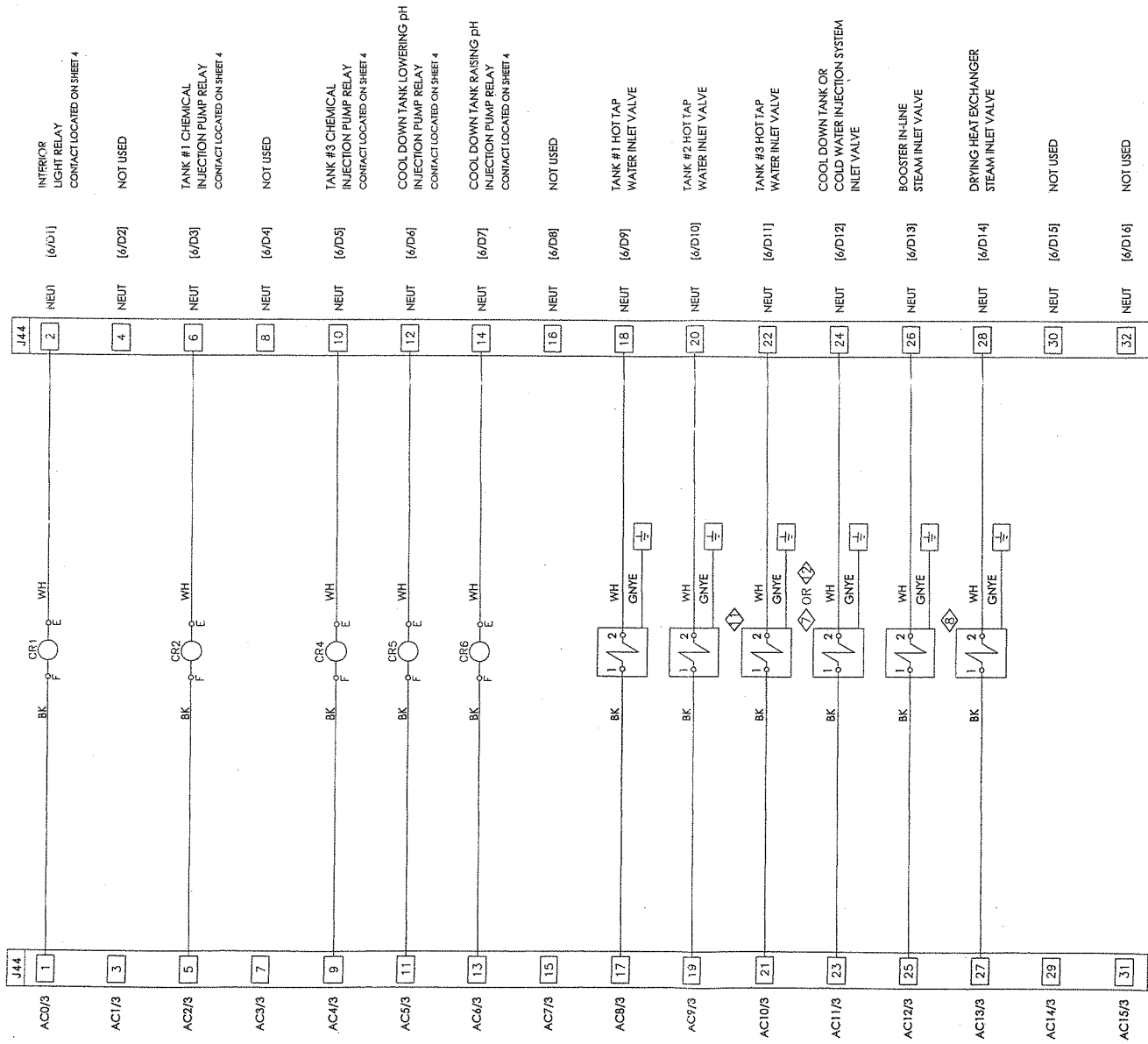
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
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ELECTRICAL SCHEMATICS  
CONTROL SECTION

Drawing No. 122-999-790

Sheet 9 of 12

SECOND I/O BOARD  
OUTPUTS  
(SLOT #6)





STERIS Corporation

1.098-08-31C.T. #99004

1.198-10-05D.C.T. #2649

1.298-11-19D.C.T. #2777

1.399-11-15D.C.T. #3464

NO DATE

REVISION

Chk. *TC*

Appr. *M*

Date *9/11/98*

Dwn. ME

Date 97-11-17

Drawing not to scale

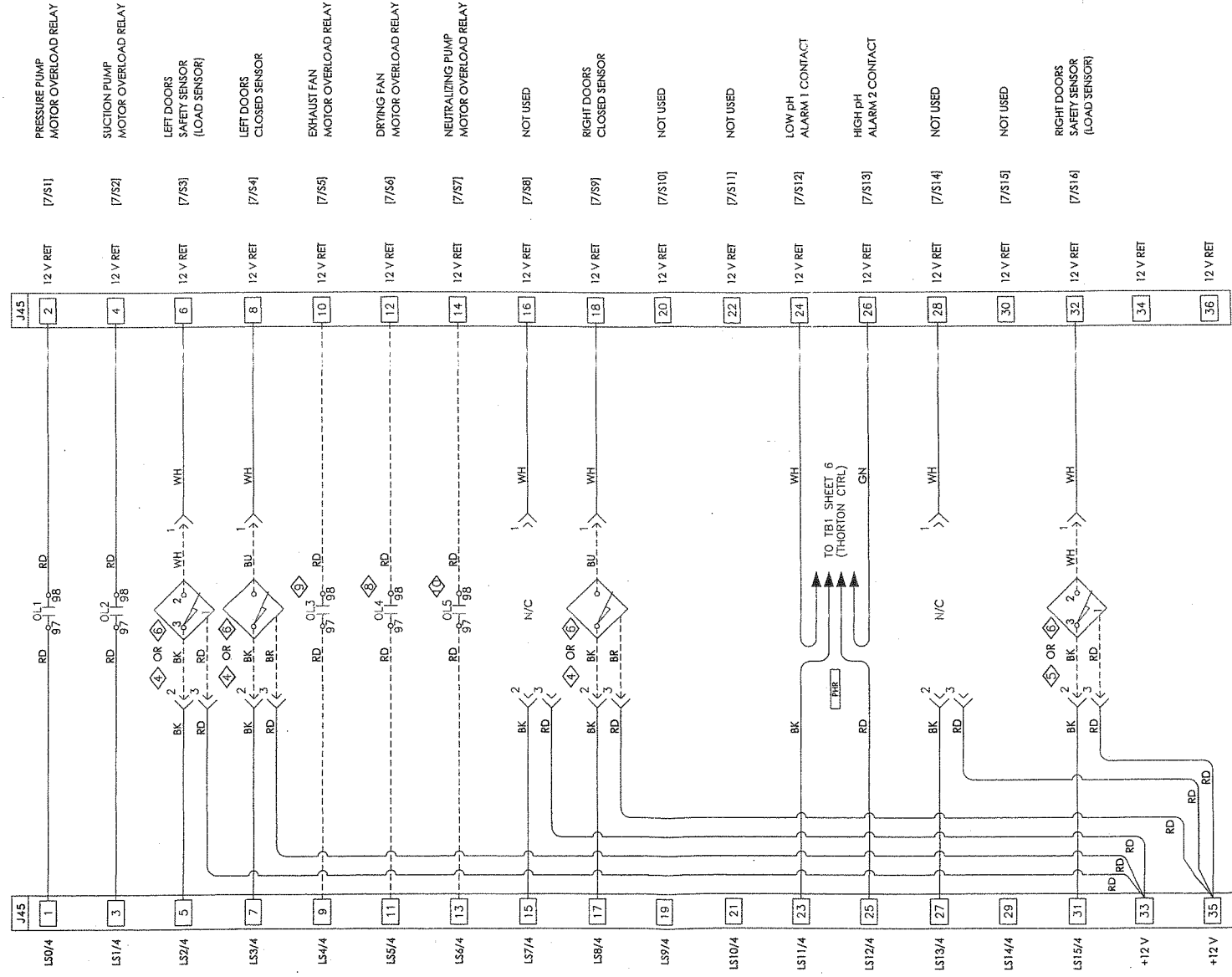
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
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Sheet 10 of 12

TITLE: BASIL@ 9500  
ELECTRICAL SCHEMATICS  
CONTROL SECTION

THIRD I/O BOARD  
INPUTS  
(SLOT #7)



  
STERIS Canada Corporation

1.0	98-08-31	C.I. #99004	TC
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1.3	99-11-15	D.C.I. #3444	TC
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Checked: TC  
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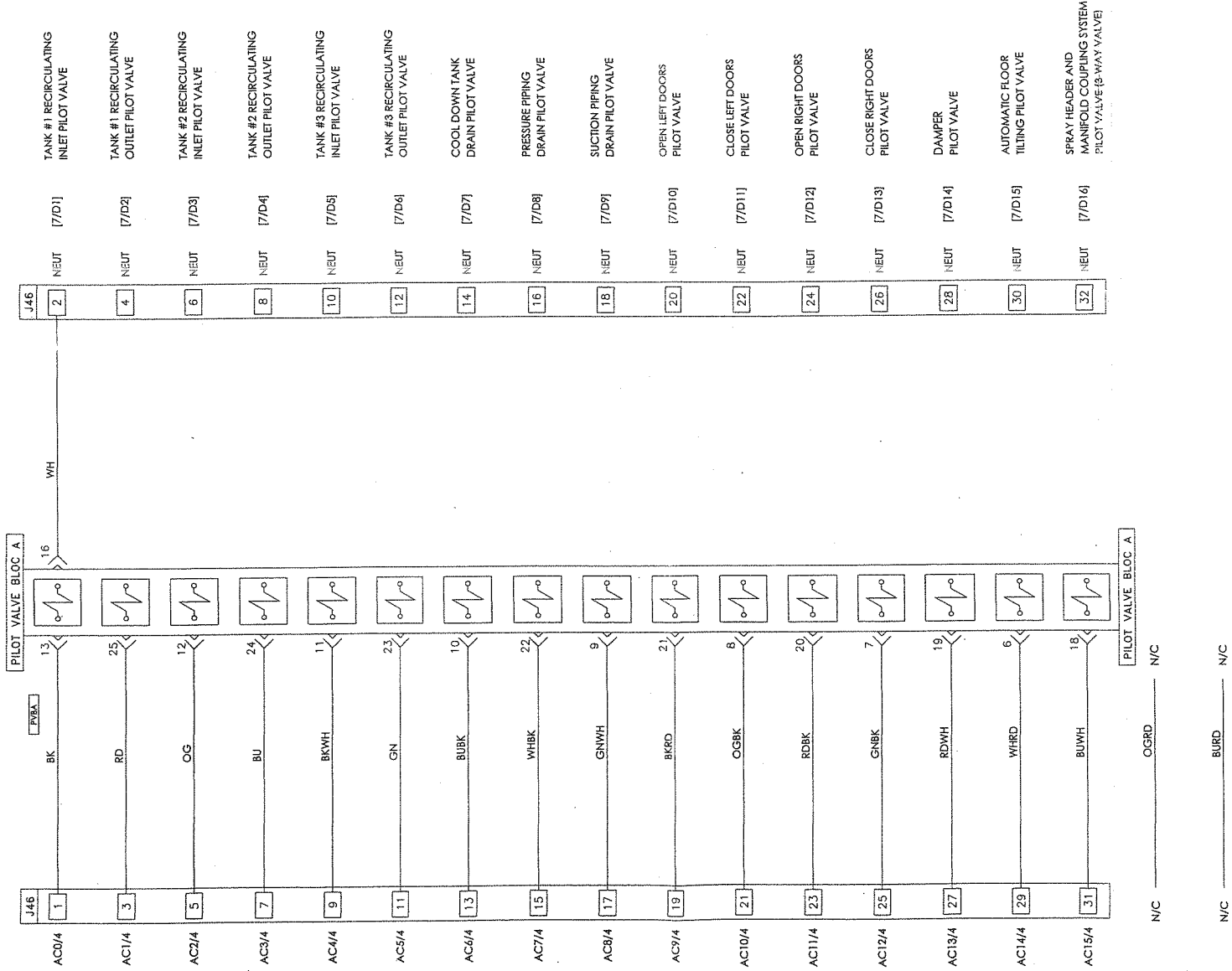
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TITLE: BASIL@ 9500  
ELECTRICAL SCHEMATICS  
CONTROL SECTION

Drawing no. 122-999-790

Sheet 11 of 12

THIRD I/O BOARD  
OUTPUTS  
(SLOT #7)



STERIS Canada Corporation

TITLE: BASIL@ 9500  
ELECTRICAL SCHEMATICS  
CONTROL SECTION

1.0	98-08-31	C.T. #99004	IC
1.1	98-10-05	D.C.T. #249	IC
1.2	98-11-19	D.C.T. #2777	IC
1.3	99-11-15	D.C.T. #3464	IC
NO	DATE	DESCRIPTION	DWN

Dwn. ME	Chk. JC	Appro. JC	Drawing not to scale	Revision	Drawn by	Date
97-11-17	97-11-17	97-11-17	97-11-17	97-11-17	97-11-17	97-11-17